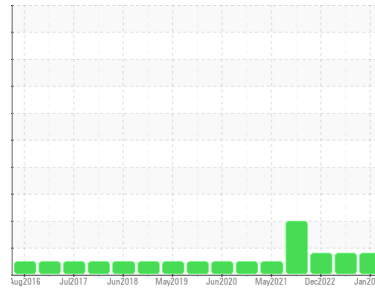




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**East Molding**  
 Machine Id  
**554 (S/N 2047428)**

Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (430 GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The copper level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0035825</b>	RP0034734	RP0023003
Sample Date	Client Info		<b>11 Jan 2024</b>	28 Jun 2023	06 Dec 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>MARGINAL</b>	MARGINAL	MARGINAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>5</b>	6	5
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	0	0
Lead	ppm	ASTM D5185m >20	<b>9</b>	13	10
Copper	ppm	ASTM D5185m >20	<b>▲ 33</b>	<b>▲ 42</b>	<b>▲ 48</b>
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 5	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>&lt;1</b>	1	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 25	<b>4</b>	6	7
Calcium	ppm	ASTM D5185m 200	<b>44</b>	50	53
Phosphorus	ppm	ASTM D5185m 300	<b>365</b>	365	346
Zinc	ppm	ASTM D5185m 370	<b>347</b>	385	381

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>1</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	1
Water	%	ASTM D6304 >0.05	<b>0.004</b>	0.005	0.008
ppm Water	ppm	ASTM D6304 >500	<b>41</b>	57.1	82.7

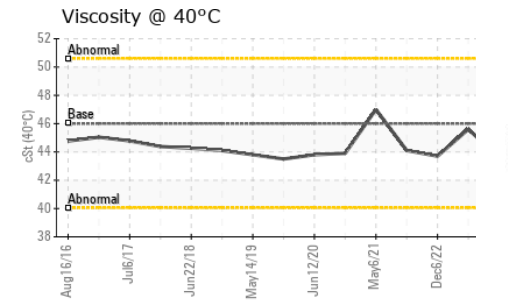
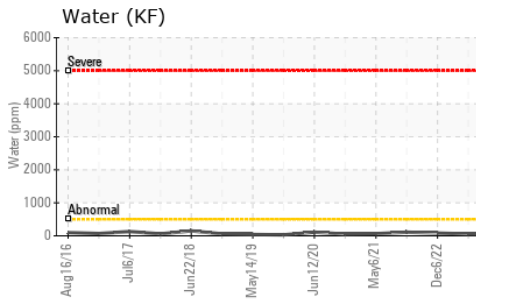
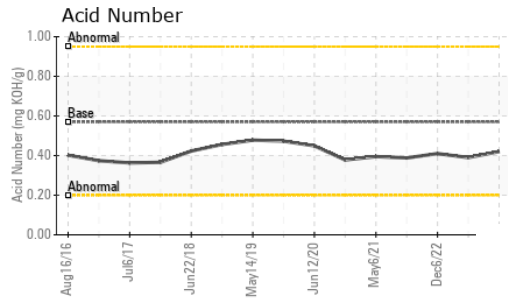
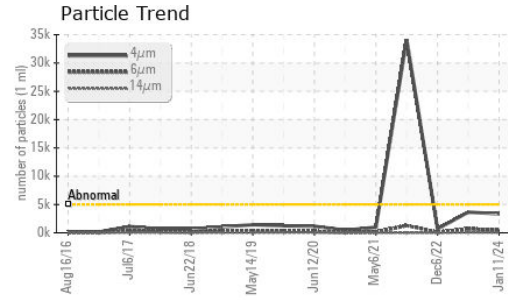
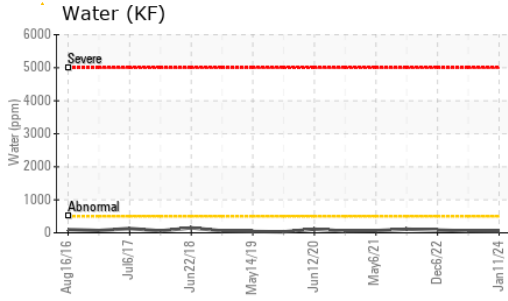
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>3345</b>	3651	687
Particles >6µm	ASTM D7647	>1300	<b>474</b>	689	82
Particles >14µm	ASTM D7647	>160	<b>21</b>	58	7
Particles >21µm	ASTM D7647	>40	<b>4</b>	14	3
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/16/12</b>	19/17/13	17/14/10

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.42</b>	0.39	0.41

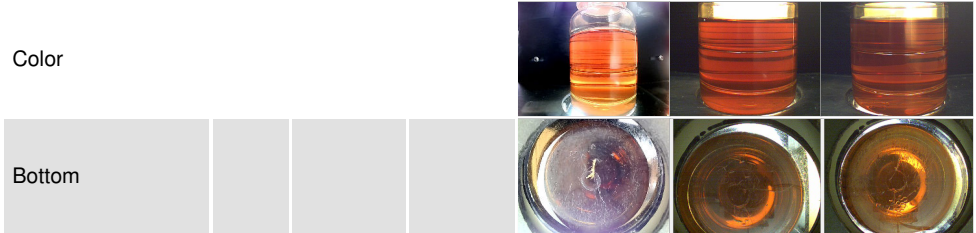
# OIL ANALYSIS REPORT



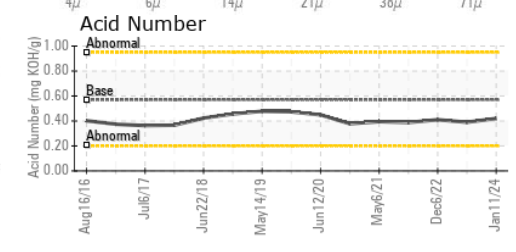
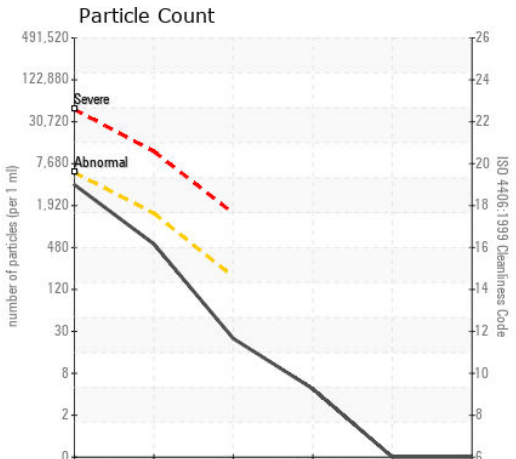
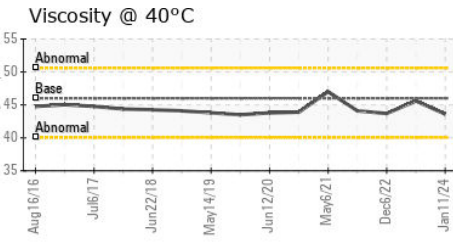
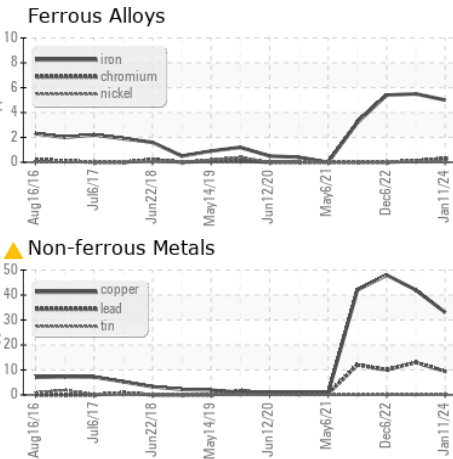
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.6	45.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0035825 **Received** : 17 Jan 2024  
**Lab Number** : 06062694 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834076 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**YANFENG AUTOMOTIVE INTERIORS**  
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Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)